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🔍 Title: **JP2155633A2: PREPARATION OF TRUSS STRUCTURE MADE OF FIBER REINFORCED PLASTIC**

🔍 Country: **JP Japan**

🔍 Kind: **A**

🔍 Inventor: **KAMIYOSHIHARA HIROSHI;  
AMAOKA KAZUAKI;  
TAKIZAWA NAOYA;**

🔍 Assignee: **FUJI HEAVY IND LTD**  
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🔍 Published / Filed: **1990-06-14 / 1988-12-07**

🔍 Application Number: **JP1988000309155**

🔍 IPC Code: **B29C 67/14; B64C 3/18; B29K 105/10; B29L 31/30;**

🔍 Priority Number: **1988-12-07 JP1988000309155**

🔍 Abstract:

**PURPOSE:** To inexpensively prepare a truss structure having lightweight properties, high strength and high rigidity by laminating a laminate composed of the first resin impregnated fibers to the first mandrel and laminating a laminate composed of the second resin impregnated fibers to the second mandrel in mutual contact relation to the first mandrel.

**CONSTITUTION:** A second resin impregnated fibers composed of the same material as the first resin impregnated fibers are helically wound around the first and second mandrels 1, 3 by a filament winding apparatus to form a laminate 8 composed of the second resin impregnated fibers. Subsequently, the laminate 2 of the first resin impregnated fibers and the laminate 8 composed of the second resin impregnated fibers are tacked and, thereafter, the third mandrel 9 having a triangular cross-section is connected to the second mandrel 3. This connection is performed by inserting a fixing pin 10 in the pin hole part 11 of the third mandrel 1 and the pin hole 12 of the second mandrel 3. The gap of the boundary part of the second and third mandrels 3, 9 is also filled with a filler 13.

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
	<a href="#">US5943758</a>	1999-08-31	Haas; Neal	Grafalloy Corporation	<a href="#">Fabrication of a hollow composite-material shaft having an integral collar</a>



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	US5547629	1996-08-20	Diesen; David	Competition Composites, Inc.	Method for manufacturing a one- piece molded composite airfoil
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Info:

DERABS C90-227851 DERC90-227851



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